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Abstract

A method for retaining state information of a digital filter object in a dynamically typed text-based programming environment is disclosed. The digital filter object retains state information which includes the minimal amount of information that is necessary to determine the output of the digital filter object. The digital filter object generates the output of the object in response to the input of the object depending on the state information of the object. The state of the filter is stored in a memory and provided to the object as an initial value of the state of the object.